



# the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX; 2M REPEATER WR6AHK; 220 REPEATER WR6ARG; MEMORIAL CALL SIGN W6LGW  
Volume XXVI November 1978 No.11

## 1978 Officers

PRESIDENT.....	WA6QJT Dick Webster	3415 Sweet Dr. Lafayette CA 94549	284-2046
VICE-PRESIDENT.....	WA6IRZ Stan Bringer	1920 Gilly Ln. Concord CA 94518	689-0989
SECRETARY.....	WB6FOA Salley Nikkel	778 Harvard Dr. Pleasant Hill CA 94523	
TREASURER.....	WA6TML John Clyde	94 Meadow View Rd. Orinda CA 94563	254-7384
EMERGENCY COORDINATOR...	W6LKE Dwayne Eskridge	P.O. Box 5502 Walnut Creek CA 94596	932-3971
BOARD MEMBER '77 & '78..	WA6GBB Bob Muench	836 Santa Maria Way Lafayette CA 94549	284-5445
BOARD MEMBER '78 & '79..	W6PFW Ted Durst	9 San Ardo Ct. Walnut Creek CA 94598	937-1463

Committees: Education Ch. WA6MWU; Door Prize Ch. WB6TZQ; Membership Ch. WB6BIX; TVI Committee K6DQL, K6IMV, N6GQ, K6VLH; Repeater Grp. Ch. WB6PUA; Rptr. Grp. Treas. WB6DHH; Christmas Party Committee: WA6ODA, VE2AQV, WB6EKT, AI6V, YL Joanne (WA6GBB) and others; October CARRIER Typists, Printers, Assemblers, and Mailers: Joe Jacksa W6CSV, Terry Ginger, Carol, Florence and Doug Lortsher W6KLM, Lee Parkinson K6OBB, Parky Parkinson K6IMV, Alma and Frank Calton N6GQ, Mildred and Hal Mumford W6CU. Please submit news for the December CARRIER as much as possible before December 1 to the retiring Editor Hal Mumford 1271 Walker Ave. Walnut Creek CA 94596. It's OK to quote articles that are printed in this newsletter without asking permission.

## \* \* \* MEETING NOTICE \* \* \*

The regular monthly meeting of the  
MT. DIABLO AMATEUR RADIO CLUB  
will be held at our usual meeting place:

GRACE PRESBYTERIAN CHURCH  
2100 Tice Valley Blvd., Walnut Creek  
November 17, 1978 8 p.m.

### PROGRAM

A talk by  
DENNIS IVERSON  
on  
Integrated Circuits  
Use and Manufacture

VISITORS ARE WELCOME

PLEASE DO NOT SMOKE IN THE CHURCH BUILDING  
PLEASE USE SQUARE FLOWERPOT TYPE RECEPTACLES  
OUTSIDE THE BUILDING FOR CIGARETTE ASHES

## Other Announcements in Brief

Members are receiving a ballot and its envelope with this CARRIER. Please vote and mail the ballot IMMEDIATELY or bring it to the November 17 meeting.

Members are also receiving with this CARRIER, a flyer and questionnaire about our Dec. 17 Christmas Party. Please mail that in as soon as possible.

Repeater Meeting will be November 20 at the Grace Presbyterian Church.

Radio Classes meet Tuesday evenings at College Park High School 7-10 p.m.

You are welcome to join the 9 p.m. informal net that meets nearly every evening on 3895 kHz plus or minus.

MDARC Board meets Nov. 27 at the QTH of Dick Webster WA6QJT.



M.D.A.R.C. MEETING OF OCTOBER 20, 1978

Auction started at 7:15 p.m. and continued to 8 p.m.

President Dick Webster WA6OJT opened the short business meeting to introduce the following nominated members for the 1979 officers: President: Henry Herting W6AMH, Lawrence Kay W6CPO. Vice President: Chuck Welch WA6MWU, Henry Berriman W6ZHY. Secretary: Salley Nikkel WB6FOA, James Presley WD6CGS. Treasurer: Dick Webster WA6OJT, Ruby Lankford WA6KWX. Emergency Coordinator: Dwayne Eskridge W6LKE, Arvel Lankford WB6KWW, Board Member: Joe Campbell WD6APL, Harry Howe WB6BIX.

Motion made and carried to close nominations. President Dick announced that votes would be tabulated at the November club meeting. Requested members send in or bring to the November meeting, the ballots they will receive with November CARRIER.

Motion made and carried that the meeting be adjourned. Auction resumed at 8:05 p.m.

Respectfully submitted  
Salley Nikkel WB6FOA  
Secretary

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M.D.A.R.C. BOARD MEETING OF OCTOBER 30, 1978

Board met at the QTH of Sue WA6AGP and Art VE2AQV Mayoff.

The following Board members were present: President Dick WA6OJT, Vice President Stan WA6IRZ, Secty. Salley WB6FOA, Treas. John WA6TML, Emerg. Coordinator Dwayne W6LKE, and Board Member Ted W6PFW.

The following club members were present: N6GQ, WB6TZQ, WB6VHW, W6CU, WD6APL, K6IMV, WA6MWU, W6AMH, WA6JLF, WD6CGS, W6HOF, K6POU, W6RVC, WA6AGP, and VE2AQV plus two members not in the club directory who joined during the evening: former member Glenn Barbour WA6KEQ and new member Mark Peal KA6CMG.

President Dick Webster WA6OJT called the Board to order at 8 p.m.

The minutes as published in the CARRIER were approved as printed.

Art VE2AQV presented the Board with the American Cancer Society Bike-A-Thon certificate. The Certificate of Appreciation was presented to Mt. Diablo A.R.C. hereby publicly acclaimed to the tireless ranks of those gallant persons who so generously gave of their tandem effort in the fight against cancer was signed September 1978 by Howard Pierce. Although not all the moneys are in as yet, most of it is and it looks like the goal of \$10,000 will be reached and surpassed . . . a very successful event!

Treasurer's Report: \$1814.00 is the gross

from the Auction of which \$1580.24 will go to the sellers. Checking account has \$2444.18 prior to writing checks to sellers. Savings account has \$652.72. Report accepted.

A motion was made and carried that the Club allow \$15 be sent to Cancer Society Leukemia Research in memory of our member, Guy Rinker.

Auction Report: Donations received for the Club total \$79.25. The Club appreciates and accept with thanks to all who contributed. The Club also appreciates and thanks all those who helped prepare in advance and during the auction. A special thank you to Judge David W6QFA who came so early and helped. (Secty. note:) I know there were many I do not have names to print, thanks to all.

Education Comm: Chuck WA6MWU reported radio classes going along well.

Membership: Names of new applicants for membership were read. Motion made and carried that these applicants be accepted.

Emerg. Coord.: Dwayne W6LKE reported that signs for jackets and Auto Club I.D. can be ordered. Call him.

The Band Parade went off well, was greatly appreciated. Our good amateurs helping all along the route.

TVI Comm.: Parky reported all is being taken care of.

CARRIER: Hal reminded the Board that he will not be Editor after December. Anyone interested in taking over the Editorship of the CARRIER please come forward! Please.

There was a discussion on FCC exams for the disabled.

There was a lengthy discussion on the two repeaters AHK and ACP. The Board moved that the W6LGW Club Station call sign be approved for ACP use on the Mt. Diablo Repeater. Motion failed. This matter may be taken up with the club members at the November meeting. The Board goes on record as being opposed to the W6LGW call being used as the ACP repeater call. This call was applied for our club station in the Red Cross Bldg.

November Board meeting will be at the QTH of our President Dick WA6OJT.

January 3, 1979 Board meeting will be at the QTH of Chuck WA6MWU.

Motion made and carried that the Board adjourn.

Thank you Sue WA6AGP and Art VE2AQV for your refreshments.

Respectfully submitted  
Salley Nikkel WB6FOA  
Secretary

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MAKE THESE CHANGES IN YOUR OCTOBER ROSTER WHICH IS AVAILABLE FROM WA6OJT FOR \$1.00

Joe Brothers is now N6ATN instead of WA6OFG.  
Frank Belleci KA6ACY is now General.  
Patrick Whittle is now Extra, WA6UDZ.

Richard H. Tyrrell WD6FFJ upgraded to General on October 11, 1978.



## A CLARIFICATION

At the Board meeting, the use of the Memorial Club Call W6LGW on the WR6ACP repeater was discussed. This is because the ACP call expired in early October and the present FCC policy is not to reissue special repeater calls. This discussion resulted from a request put before the Board of Directors both at the October and November meetings (see previous CARRIER minutes) by Bob Richter and Wendell Peterson, owners of a repeater on Mt. Diablo. This is not a club but a privately owned system.

On both occasions the Board of Directors opposed the use of the club calls (W6CX in October and W6LGW in November) on the basis that such use of a club call was inappropriate for a privately owned repeater over which the Club could not exercise jurisdiction or operational responsibility. Additionally, in the case of the W6CX call, the trustee also would not concur with the use of that license for any repeater operation. The trustee of the W6LGW call did however agree to the use of that license. This is his prerogative as the legally responsible person.

To avoid any longer article, the undersigned oppose the use of any club call as a private repeater for the following reasons:

- (1) There is no valid reason for such usage.
- (2) The Club has responsibility for licenses issued to it through its trustee and through applicable rules. No such rules exist nor are appropriate to a privately owned system.
- (3) MDARC has a club-sponsored repeater system operating under the Rocky Ridge Repeater Group, duly licensed and regulated by the group.
- (4) A need for a second club-sanctioned repeater using club calls on the same frequency is not warranted.

This presentation is made to clarify the reasoning that led the Board of Directors to oppose such usage at the two meetings referred to in the minutes.

Ted Durst, W6PFW

Dick Webster, WA6OJT

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The above cartoon is from the August 1921 QST. The "RUSSELL" depicted is the newly married (at that time) Ontario Division Mgr. (at that time) A. H. K. Russell.

## REPEATER NEWS

Don't forget the repeater meeting on Monday November 20, 1978. At that time we will be voting for a new chairman, treasurer, steering committee members for 1979.

There has been a proposal for the phone on ARG to be linked with K6POU/RPT. I have stated my opposition to that in the last article. Their machine is a private machine. We are graciously being allowed to use it now and then.

In regard to phone patches on Repeaters, let me quote a recent FCC ruling regarding Radio Telephone Interconnections. Section 97.79(d) states that the "licensee of an amateur radio station may permit any third party to participate in amateur radio communication from his station, provided that a control operator is present and continuously monitors and supervises the radio communication to insure compliance with the rules."

It further stated: "The Commission noted that this clearly prohibited autopatching and reverse autopatching through automatically controlled repeater stations and required a control operator to be on duty at all times during these operations. Furthermore, it is said, all calls not initiated at an amateur station had to be screened by the control operator before being placed on the air."

From the above it is clear that only repeaters that are controlled repeaters with a secondary operator are legal for patches. It looks like we might have to go to secondary control on ARG if we want to keep the patch on this machine. The article also made statements that have been heard before regarding only registered devices could be connected directly to the telephone network with standard plugs and telephone-company-installed jacks.

As you can see, there is a lot that we have to talk about. Everybody make this meeting at the Church on November 20, 1978, and I promise you that we will get everything done very quickly so we do not miss our other pleasures. See you all at the meeting.

Jay D. Caldis WB6PUA  
Chairman

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## THANKS

A great big THANK YOU to all who helped making the recent auction a big success.

A special appreciation to Peter Strauss WB6YBE, Art Mayoff VE2AQV, Hank Beisheim WB6TZQ for their fine service as auctioneers. You really added to the enjoyment of the auction.

Also, a number of people donated items to be sold with proceeds going to the Club. The Board would like to express special thanks to those who donated items to the Club.

- WA6IRZ



THIS SPACE WAS SAVED FOR  
A PROMISED ADVERTISEMENT  
WE WAITED UNTIL THE VERY  
LAST MINUTE, AND THEN WE  
HAD TO TAKE THE CARRIER  
TO THE PRINTER, WITHOUT  
THE AD AND WE CAN'T TELL  
YOU WHO WAS GOING TO  
GIVE US THE AD, BECAUSE  
THEN IT WOULD BE AN AD &  
MAYBE THEY DON'T WANT TO  
ADVERTISE IN THAT WAY

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OUR ONLY BUSINESS IS HAM RADIO!!!

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ONLY AUTHORIZED KENWOOD DEALER!

BEAT THE PRICE INCREASES

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	New Price	Your Cash Price*
KENWOOD		
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2. TR-7400A with Astron 12A/PS	\$449	\$399
3. TS820-S	\$1249	\$978

ICOM

IC-280 \$479 \$369

\* Mastercharge/Visa accepted

CHECK OUR SPECIALS ON MOST ITEMS

ALL ITEMS SHIPPED FREE VIA U.P.S. IF  
YOU'D RATHER NOT MAKE THE DRIVE....

Back before 1920 I was glad when I heard about .... .. because the practice of sending HA HA in code when something is supposed to be funny surely would be quite an awkward and stilted thing to do. It soon became apparent that .... .. has a meaning that cannot be translated into words. Nevertheless people tried to do it then and are still trying to do it. Saying or writing HI or HI HI just doesn't convey the right meaning. Even sending H E E like I hear some fast CW senders pause and do, isn't the same. H E E seems to mean "I think I said something funny but maybe it isn't." However, whistling .... .. across the room in a suitable manner can approach the right connotation and, in general, correct usage of the signal is almost an art.

Perhaps the slight shades of meaning and the utility of .... .. can best be illustrated by some examples showing how it is used. A number of years ago, when the Japanese amateurs were just beginning to get on the air a lot, a CW station in Japan laboriously sent CQ one night for about 3 minutes and then signed. Several stations replied with no result. He immediately sent CQ many times for another 3 minutes. More amateurs answered him this time, but he didn't come back to any of them. When he began to call CQ for the third time, amateurs all over the U.S. could be heard sending .... .. and how could the humor of such a situation be expressed and shared any other way? It could not have been done using phone!

Another example: I told my brothers W2CU and W3CU that my brother-in-law had been given a CB rig for his camper by one of his sons, and I was going to show him how to use it. But later when the time came to do this, and I turned on his CB rig, I backed down. The next day I told my brothers on CW that (with all my ham radio experience as W6CU and with my former experience as a commercial radio operator on the West Kader KOSL) I just had not been able to get up enough nerve to break in on all that CB lingo. What was the reply to this? They sent .... .. of course.

There is something lighthearted about .... .. and you almost have to be a CW operator to understand it. When an Oscar satellite flies high above the earth, free of all worldly cares and turmoil, one is tempted to quote parts of Shelley's poem TO A SKYLARK by saying "Hail to thee, blithe spirit! Bird thou never wert," etc. And whenever the satellite's beacon finishes sending its round of Morse code telemetry data back to earth, it is indeed appropriate that the beacon say .... .. a couple of times - truly a joyous and triumphant signal.

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## READING THAT I'VE LIKED

(Editor's Comment: 89% of our present membership did not get to read this excellent article by Jay Caldis that was in our May 1972 CARRIER)

### How I Became a Ham By Jay Caldis WB6PUA

The following is a real life drama of how I became interested in Amateur Radio and eventually obtained a license.

One bright sunny day in the year of our Lord 1959 while trying to earn some money to feed my small family, a fellow worker was looking through a Knight Kit Catalog. After he was through, I picked up the catalog and began to look at all the strange items. Finally, my eye landed on a shortwave receiver kit for the \*!#@\$ awful price of \$39. I thought it would be fun to listen to shortwave and decided that I couldn't build one but maybe I could buy an already built one. But after I saw the price of the built receivers, the \$39 did not look so bad. I went home and thought about how I would rob Peter to pay Knight Kit. I sent away for the kit and received it in about three weeks.

With the purchase of a soldering iron, I proceeded to look at the instruction manual and all the parts. I kept wondering how miniature firecrackers and other funny-looking parts would make a radio work. I built the radio finally, and after wondering how I got those small parts in those tiny places, would it work, and had I wasted my money.

I turned on the switch and the dial lit up and I waited for the darn thing to explode. To my surprise, music poured forth from the broadcast band, and the darned thing actually worked. With the loan of a signal generator and a volt-ohm meter, I carefully went through the alignment procedure. For many months I listened to shortwave which included hams.

After a while, I decided that it was becoming a bore to just listen and started to collect information on how to obtain an Amateur Radio License. I came into contact with Don Jensen K6VXM, who told me what to do to obtain a Novice License. I taught myself the code by sending into a tape recorder and then playing it back. I read all the books I could find on Amateur Radio Theory and finally Don Jensen gave me my Novice Test. I purchased a Knight Kit TR-60 transmitter and another very cheap Knight Kit Receiver and was ready to hit the air waves.

I remember my first contact very clearly.

I sent out a very shaky CQ on 40 meters and started to listen. Suddenly, I heard what sounded like my call coming back to me. By this time my hand was shaking so badly I could hardly answer the call. The band was so crowded I wasn't sure what I was hearing, but finally after several back and forth questions determined I had made contact with Deercreek, Oregon. The receiver was very broad and the QRM so bad I did not make many contacts. Finally, I heard about a Navy Beam Filter to be used with earphones. This made things much better and for the next few months I enjoyed myself. I decided after a while that I wasn't going to increase my code speed much this way (I was up to about 10 WPM), so I went off the air and purchased a code record and with the help of Don Jensen, increased my speed to what I thought was enough to pass the code test. During the same time, I was still reading theory books every chance I could.

One sunny Friday morning, I proceeded to the FCC office in San Francisco. There were about 15 applicants for ham licenses there that morning. The examiner kept talking about various things that I did not hear, but finally it was time to take the test. I remember the code starting and my pencil moving across the paper, but I did not know what was being sent. After I had written several lines, I suddenly realized that maybe I had enough to pass the test. My hand started to shake, I could feel my blood pressure surging to my head and my hand started to shake so badly that I was writing nothing but chicken scratches. I put my pencil down and felt I had blown the test.

One by one, the examiner would send the applicants home to come back another day to try again. When it was my turn, he started to read my paper and I could tell when he reached the scratches. He stopped, looked at my paper again, and then informed me that I had passed.

The exhilaration I felt at that moment can only be felt by those who have experienced the same emotion. I passed the written and in a few weeks had my General License. On a later date, I returned and obtained my Advanced License.

I have never been sorry I first picked up that catalog. The Knight Kit Catalog has been dear to my heart ever since.

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## EXCERPTS FROM OTHER RADIO CLUB PAPERS

. . . . . There has been a lot of talk lately about third party traffic to overseas. Don't forget that the US has third party agreements with only a small number of countries and most of these are in Latin and South America. So, before you pass or receive any third party traffic, be sure you check with the license manual to ensure we have an agreement with the other party . . . . .

- West Valley ARA  
(The HETERODYNE)

Expedition to ALCATRAZ Oct. 7 & 8, 1978  
(Or K6YA BEHIND THE BARS AT LAST)

The Alcatraz operation by the Foothill Amateur Radio Society was a great success. Nearly 400 CW and Fone QSO's were made on 40, 20, 15, 10 and 2 meters, using 3 transceivers and operating 6 hours each day on Saturday and Sunday . . . . .

- Foothills ARA  
(The Footprint)

. . . . . There is one Cardinal Point that should be foremost in each of our minds when sending code. SPACING. Yes - SPACING. This very important consideration permits the proper assembly of dots and dashes which form letters, and letters form words, and words form thoughts or sentences. To provide the proper intelligence the proper articulation is essential! COMBINATIONS ie (PD for and, etc. NAGE for name) are typical examples. These are due to poor spacing! The early keyers did not have the logic circuits that the modern keyers now have and they called for careful timing to get the elements of the code through the Gate. The later keyers, (solid state type) have clocks and they control the assembly of the code elements. However unless you are using one of the modern versions of keyers that provide for AUTO operation, or the auto spacing between letters (a clock controlled gate) you must provide essential spacing. The keyers make the dots and dashes correctly and the logic circuits make combinations of letters precisely, but you are in charge of the word and sentences. . . . .

- Pacific Am. Radio Guild  
(Random Radiation)

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## SOME CONDENSED AND REWOORDED HR REPORTS

Return to Repeater Licensing is being urged by a number of councils, associations, committees, etc. Some want mandatory frequency coordination and some don't.

An FCC Fee Refund Program is supposed to get under way by the first of the year, with FCC licensees who paid more than \$20 for their licenses first in line for reimbursement.

FCC's Amateur Exam Study Guides are available from any FCC Field Office.

ARRL's 1979 Handbook of over 500 big pages will sell for \$9.75 at your local dealer.

The Negative Effects of Amateur Antenna Structures is the real issue in many anti-tower zoning laws.

900 MHz will be CB's Hew Home if they get a new home, but final action on CB expansion (which some say is not needed) apparently is not imminent.

Launch of the Soviet "RS" Satellite may or may not be imminent, or may have taken place by the time you read this.

A Repeater During an Autopatch is not a repeater but is a conventional Amateur station making a phone patch. The rules governing regular Amateur station operations, not the repeater rules, apply during autopatches.

Advanced Class Licensees can upgrade their callsigns (2x2) after January 1. Extra call-sign upgradings will be only 2x1 after Jan. 1.

Amateur Communications during Brush Fires in the Los Angeles area proved a valuable adjunct to Red Cross and rescue workers.

Propagation prospects for all bands continue to be good, but old Sol's continued high levels are conducive to unpredicted solar flares.

## FROM THE DEPARTMENT OF STATISTICS

Although the number of MDARC members is at an all-time high of 325, there were sixty-three 1977 members who did not renew for 1978.

About 45 members are unlicensed. Most of these are attending classes, but some continue rejoining every year without becoming hams.

Our oldest member is probably Archie Waring who is about 88 or 89 years old. Archie was the person who lobbied many years ago and got the State of California to allow us to have ham radio license plates on our cars. He lives in Fremont, has not attended a meeting for a long time, but rejoins every year anyway.

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FOR SALE: Heathkit 2 meter FM Transceiver with 10/70 52 54 94 34/94 66/06 (AHK) with matching power supply. Excellent condition. \$150  
Bruce WB6KNU

NEED PARTS? Chuck WA6MWU has a large quantity of I.C.s and other components. Will sell cheap. 676-5262 evenings

If you want a QST SUBSCRIPTION or RENEWAL (\$12) or WORLD RADIO SUBSCRIPTION or RENEWAL (\$6.75), make your check out to the Club and give or mail to our treasurer John Clyde 94 Meadow View Rd., Orinda, CA 94563; but if you want a NAMETAG (\$2), make a check out to the Club and give or mail to Harry Howe, 5 Las Vegas Rd., Orinda, CA 94563

WANTED: A new Editor and/or Managing Editor for the CARRIER. To this pleasant job, W6CU is saying 73 with his 88th issue December 1978. There is no pay, but many fringe benefits: HR Reports, U.S. Callbook and Callbook Supplements, free Worldradio each month, free quarterly AMSAT Newsletter and 16 other radio club newsletters that are exchanged each month, chance to write what you think with no danger of being stopped, access to copies of previous CARRIERS dating back to 1953, chance to improve your spelling and typing skills, job security & a chance to con the Board into even more benefits. Contact any Board Member.

NOW AVAILABLE AT COST (or make it's less than cost): A special Mt. Diablo Amateur Radio Club 17-large-page October 1978 MEMBERSHIP DIRECTORY. Pay WA6OJT \$1.00 before Dec. 1 so he can make your Xeroxed copy. Because of an estimated limited demand, this is the way we are going this year for our Fall Directory, with its updated data & addresses, and its 57 names of new members who joined since the printing of our February 1978 membership Directory. A total of 320 1978 members and addresses, data, etc. are alphabetically listed, and also their call signs are listed alphabetically for your convenience.

FREE: A copy of a QSL card that was sent between two rotary spark gap stations more than 56 years ago. It was the kind of DX that every operator of thundering KING SPARK used to dream about, but seldom, if ever, realized. The QSO took place between 7ZJ, Vancouver, Washington, and 5XB, College Station, Texas. Nearly 2000 miles over land, across the Rocky Mountains into a rare call area (for each station), it may be a world's record between two amateur spark stations.

W2CU, W3CU, & W6CU

WANTED: Volunteers to help with the Mt. Diablo Amateur Radio Club Christmas Party. Call any Board member.

## The Base Station

Your East Bay authorized ATLAS dealer stocking the 210X, RX110, TX110, Station Consoles, Mobile Mounts, etc.

Introducing Tempo's Syncom S-1 800 ch. Synth. Hand Held. Limited Quant. \$349.00

KDK FM2015R 2M 15W 800 ch. & 4 ch. Scanner	Reg. 440.00	Cash 417.95
Encoder mic with automatic PTT		49.95
Auto Dialer 18 memories	129.95	99.95
ALDA 103 80-20 200W Xcvr	495.00	470.25
Wilson MK IV 4W Hand Held	260.00	247.00
Wilson WE800 ch. Portable	500.00	439.95
Dentron Goodies:		
Jr. Monitor Tuner		79.50
160-10 KW Tuner	130.00	119.95
160-10 Supertuner & w/mtr & sw		149.50
MT 2000A 3 KW Tuner	200.00	179.95
GLA 1000 NEW KW Linear w/PS		379.50
MLA 2500B DeLuxe Linear	900.00	799.00
All band Doublet w/Lead-in		24.50
W2 Wattmeter		99.50
Hustler Resonators from		6.50
DSI Frequency Counter 500 MHz		149.95
DSI Freq. Count. to 600 MHz w/oven		199.95
Alliance HD Heavy Duty Rotor	155.00	119.95
Ham III Heavy Duty Rotor	196.00	129.95
Ten Tec OMNI All New 80-10 Xcvr avail. soon		
MFJ Goodies:		
Freq. Stand.	29.95;	Econo Keyer 39.95;
8043 Keyer with paddle	54.95;	DeLuxe
8043 Keyer	69.95;	DeLuxe Contest Keyer
w/Memories	139.95;	Long-Wire Tuner 39.95;
901 Antenna Tuner	59.95;	943 Versa Tuner
69.95;	941 Versa Tuner II w/Meter	89.95;
SSB/CW Filter	59.95	
Ameco PLF Receiver pre amp		149.95
Ameco 110 volt code practice osc.		22.95
KLM 10 in 70 out FM/SSB 2M amp.		149.95
Baluns from		12.95
K. E. 80-40 Dipole Kit		25.95
K. E. 80-40 Trap Dipole Kit		39.95
1979 Callbooks & ARRL Handbooks avail. soon		
USED GEAR		
Collins 75S3 Receiver mint		495.00
Drake 2C Receiver		199.95
Drake 2NT Novice Transmitter		99.95
Drake T4XC w/Spkr & Supply mint		575.00
Murch UT 2000A Tuner		99.95
Turner 250 Desk mic		19.95

OPEN UNTIL 8 PM WEEK NIGHTS UNTIL CHRISTMAS

## The Base Station

2101 Pacheco St. Concord, CA 94520

(415) 685-7388



### LAST MONTH'S PROBLEM

An SWR bridge can be easily tested by noting both forward and reflected readings and then reversing the meter in the line. In other words, hook the transmitter up to the antenna connection on the bridge and the antenna to the transmitter connection on the bridge. The meter reading should be the same in both directions except forward will read like reverse and vice versa.

- WA6KGI

### THIS MONTH'S PROBLEM

I take a length of 300 ohm TV type twin lead, split it, and double the spacing between conductors. What will be the new characteristic impedance of the line? HINT: Look on your bookshelf for the formula. I'll bet it's there.

- WA6KGI

(Note by Editor: Bob Moore W6GZC has given us a number of cryptograms to run each month.)

In a puzzle-type cryptogram each letter represents a different letter. To solve a cryptogram you must determine which letters the various cryptogram "letters" represent. HINT: Both sentences start with a very very common word.

THE T R U T E T FREE ET THE  
QRX ZSOQSY WLQ DX SK U TUAQ VYXX ZBXQ. QRX  
TUAQ BT VYXX, NLQ XIXYCQRBKJ XATX BT OSTQBKJ  
DX U VSYQLKX.

Q=T  
R=N  
X=E  
V=F  
Y=R

N=B ?  
L=L

From:  
Mt. Diablo Amateur Radio Club, Inc.  
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Affiliated with the ARRL  
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Member: Amateur Radio News Service

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Visitors at our last meeting	5
Special Requests	5
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	371
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